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OGAMOUS AND VASCULAR CRYPTOGAMOUS PLANTS OF INDIANA

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CATALOGUE

OF THE

PHAENOGAMOUS AND VASCULAR CRYPTOGAMOUS

PLANTS OF INDIANA.

BY

EDITORS OF THE BOTANICAL GAZETTE,

CRAWFORDSVILLE, IND.,

AND

PROF. CHARLES R. BARNES,

LAFAYETTE, IND.

CRAWFORDSVILLE, IND.

REVIEW STEAM BOOK AND JOB PRINTERS.

1881.

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PREFACE.

So far as we can ascertain this is the first attempt towards making a complete catalogue of the plants of Indiana, and this limits itself to the enumeration of Phanerogams and Vascular Cryptogams. The vast body of cryptogamous plants belonging to the State cannot be included, for they have not even been collected. The materials for this list have been accumulating for some time, at first under the direction of the State geological survey, but latterly as the times and means of the authors permitted. It is thought that the time has come for publication, not because the list is absolutely complete, but because it is so nearly complete that only publication can provoke further additions. We take this opportunity of urging all who can to furnish additions or corrections, as it is the intention from time to time to publish such material in the form of extra sheets to the BOTANICAL GAZETTE. Already several additions have been made to the parts published and in all probability the first sheet of "additions and corrections" will be very shortly issued.

Three lists of the plants of Jefferson county have been published and one of Gibson and Posey counties, but we know of no published list of the plants of any other part of the State. For this reason references to these counties will be more copious than to any others. The range of each species is briefly indicated, the counties from which it has been reported being named or grouped together in some general expression, such as "north," "south," etc. This is by no means to be understood as complete, but simply to give authenticated stations. We hope that much information in regard to extension of range will be received. When there is occasion to believe that a species is distributed throughout the whole State no range is given.

Although it is hardly necessary to give the topographical features of a State that is so well known, a few statements may be made to make clearer some points in the distribution of plants. The whole State is a plain sloping gradually towards the west and south-west, making the lowest point in the

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south-western counties, lying between the Ohio and the mouth of the Wabash. These counties have an elevation above the sea of only 300 feet, while to the north and east the land rises to the height of 900 feet. The highest point of land is known as Weed Patch Hill, in Brown county, being 1147 feet above the sea. The northern part of the State is drained into Lake Michigan and is very level, the extreme north-western counties being but a part of the old lake basin. This makes them very sandy and there among a stunted and scanty growth of trees are to be found many plants peculiar to "barrens." A similar condition of things holds to a certain extent among the "knobs" of the southern part of the State. This peculiar range of hills, averaging a mile or more in width and 500 feet in height, begins on the Ohio river in Floyd county and trends north-west to the line between Washington and Clark, at that point turning to the east and then to the north, forming the boundary line between Washington on the west and Clark and Scott on the east. It was in this region that Dr. A. Clapp in the decade beginning with 1835, did much of his botanical work, and to his valuable collection this present catalogue is indebted for much material. The prairies are found in the western and northern counties and their characteristic plants can be readily recognized in the following list. These plants, however, are disappearing more rapidly than any others, for the rich prairie lands are now almost all under cultivation and the native flora, driven to the fence rows and railroads, leads but a precarious existence. Plants peculiar to rocky gorges or sterile soil are in much less danger of extermination. The splendid forests which originally covered the greater part of the State are rapidly disappearing, and in their place is springing up a new race of plants. Our characteristic forest trees are the poplar (*Liriodendron*), maple, ash, elm, black and white walnuts, oak, hickory, beech, sycamore. Some of these grow to very great size and many are the traditions of monster trees that once grew in various parts of the State. Along our rivers and railroads new species are continually appearing and such interlopers should be carefully watched and reported.

It will be seen that the flora of the State is readily divided into four groups, each marked by the physical aspect of the region in which it is found. These regions may be called "the river valleys," "the lake borders," "the prairies" and "the barrens." An examination of the stations given will enable the reader to easily recognize the characteristic plants of these very distinct regions.

As recorded at present our flora numbers 1432 species grouped under 577 genera. This represents only those plants whose occurrence can be authenticated by specimens. Some species were omitted of whose presence within our

limits we were reasonably certain, but it was the endeavor to strictly adhere to the idea that it is much easier and more honorable to add to a list than to subtract from it.

It remains to say a word in regard to our very useful friends. For the south-western counties we depended upon Dr. J. Schneck, of Mt. Carmel, Ill., who is in a most favored botanical region and who has already published in a State report a list of the plants of his own and neighboring counties. Some additions and corrections for this same region have been furnished by Mr. Robert Ridgway of the Smithsonian Institution, and will shortly appear. Rev. E. J. Hill, of Englewood, Ill., has contributed many species for the north-western counties and his kindness in furnishing a large list of plants has gone far towards making our catalogue complete. In Laporte Mr. W. C. Steele has been of much service. Mr. W R. Dudley, of Ithaca, N. Y., has very materially aided us in Monroe county, several species being reported only by him. Mr. Ansil Moffatt, of Indianapolis, has done good work in Marion county as will appear by looking over the stations. Jefferson county has been most thoroughly "worked up" by the authors and Prof. A. H. Young, of Hanover. They have also explored much of Clark in connection with Prof. John F. Baird, of that county, and also Scott, Floyd and Washington. Two of the authors did a good season's work in Jasper, Laporte, St. Joseph, Elkhart and Noble. Explorations for several seasons have been made in Parke, Montgomery, Tippecanoe, Carroll and Cass and for one summer in Allen, Wabash, Huntington, Miami, White, Pulaski, Starke and Newton. By examining the map it will be seen that this work has been well distributed and this fact gives us considerable confidence that the present catalogue represents at least fairly the flora of the State.

It is to be hoped that additions to our list will be promptly reported that they may be put on permanent record at the earliest possible date.

THE AUTHORS.

October 1st, 1881.

CATALOGUE.

RANUNCULACEÆ.

Clematis Viorna, L. South.
Pitcheri, T. & G. Lower Wabash Valley.
Virginiana, L.
Anemone cylindrica, Gray. North.
Virginiana, L.
dichotoma, L. (*A. Pennsylvanica*, L.) North and Gibson.
nemorosa, L.
acutiloba, Lawson. (*Hepatica acutiloba*, DC.)
Thalictrum anemonoides, Mx.
dioicum, L.
purpurascens, L.
Cornuti, L.
Trautvetteria palmata, Fisch. & Meyer. "Knobs" (*Dr. Clapp*).
Ranunculus aquatilis, L., var. **stagnatilis**, DC. North.
" var. **trichophyllus**, Gr.
multifidus, Ph. "Knobs." Wabash Valley.
alismæfolius, Geyer. South.
abortivus, L.
" var. **micranthus**, Gr. Gibson and Posey.
sceleratus, L. Tippecanoe.
recurvatus, Poir.
Pennsylvanicus, L. North-West.
fascicularis, Muhl.
repens, L.
Myosurus minimus, L. Gibson and Posey.
Isopyrum biternatum, T. & G.
Caltha palustris, L. Upper Wabash Valley and northward. "Knobs."
Coptis trifolia, Salisb. "Knobs."
Aquilegia Canadensis, L.
vulgaris, L. Escaped south.
Delphinium tricorne, Mx.
Consolida, L. Escaped. Banks of Ohio River and Gibson.
Hydrastis Canadensis, L.
Actæa alba, Bigel.
Cimicifuga racemosa, Nutt.

MAGNOLIACEÆ.

Magnolia acuminata, L. Occasional in Ohio River Counties.
Liriodendron Tulipifera, L.

ANONACEÆ.

Asimina triloba, Dunal.

MENISPERMACEÆ.

Cocculus Carolinus, DC. Lower Wabash.
Menispermum Canadense, L.

BERBERIDACEÆ.

Berberis vulgaris, L. Jefferson (spontaneous?).
Caulophyllum thalictroides, Mx.
Jeffersonia diphylla, Pers. South along the Ohio River.
Podophyllum peltatum, L.

NYMPHÆACEÆ.

Brasenia peltata, Ph. Wabash Valley and northern lakes.
Nelumbium luteum, Willd. With the last.
Nymphæa tuberosa, Paine. With the last.
Nuphar advena, Ait.
" var. **variegatum**. Lower Wabash. (*Dr. J. Schneck.*)
sagittifolia, Ph. "Deeper ponds, Gibson Co. Have found this but once." (*Dr. J. Schneck.*)

SARRACENIACEÆ.

Sarracenia purpurea, L. Northern swamps.

PAPAVERACEÆ.

Papaver somniferum, L. Spontaneous near dwellings.
Stylophorum diphyllum, Nutt. Rich woods.
Sanguinaria Canadensis, L.

FUMARIACEÆ.

Dicentra Cucullaria, DC
Canadensis, DC.
Corydalis flavula, DC.
aurea, Willd. "Knobs."

CRUCIFERÆ.

Nasturtium officinale, R. Br. Jefferson.
sessiliflorum, Nutt. Along the Ohio River.
palustre, DC.
" var. **hispidum**, Gr.
lacustre, Gray. "Knobs." Lower Wabash.
Armoracia, Fries. Escaped.
Leavenworthia Michauxii, Torr. "Buffalo Lick," near Charlestown, Clark Co.
Dentaria diphylla, Mx. Jefferson.
laciniata, Muhl. Very variable. (Vide Ind. Geol. Surv. Rep't. 1874 and 1875.)

Cardamine rhomboidea, DC.
" var. **purpurea**, Torr.
pratensis, L. Lake.
hirsuta, L.
Arabis Ludoviciana, Meyer. "Knobs."
lyrata, L. La Porte.
dentata, T. & G. Gibson.
lævigata, Poir.
Thelypodium pinnatifidum, Wats. (*Arabis hesperidoides*, Gray.)
Barbarea vulgaris, R. Br. Jefferson.
Erysimum asperum, DC. var. **Arkansanum**, Gray. Prairies.
Sisymbrium officinale, Scop.
canescens, Nutt. Tippecanoe.
Brassica Sinapistrum, Boissier.
alba, Gray.
nigra, Koch.
Draba brachycarpa, Nutt. Gibson and Lake.
verna, L. Jefferson.
Camelina sativa, Crantz. Tippecanoe and Jefferson.
Capsella Bursa-pastoris, Mœnch.
Lepidium Virginicum, L.
Cakile Americana, Nutt.

CAPPARIDACEÆ.

Polanisia graveolens, Raf.
Cleome pungens, Willd.

VIOLACEÆ.

Ionidium concolor, Benth. & Hook. (*Solea concolor*, Ging.) Jefferson.
Viola lanceolata, L. Jefferson.
primulæfolia, L. Gibson.
blanda, Willd. Jefferson, Lake and "Knobs."
cucullata, Ait.
" var. **palmata**, Gr. South.
" " **cordata**, Gr. South.
sagittata, Ait. Jefferson and Lake.
delphinifolia, Nutt. Prairies.
pedata, L. Knobs.
canina, L., var. **sylvestris**, Regel. Jefferson and Lake.
rostrata, Muhl. Jefferson.
striata, Ait.
Canadensis, L.
pubescens, Ait.
" var. **scabriuscula**, T. & G. Jefferson.
tricolor, L. Jefferson.
" var. **arvensis**. Tippecanoe, Clark and Gibson.

CISTACEÆ.

Helianthemum Canadense, Mx. St. Joseph.
Hudsonia tomentosa, Nutt. Lake.
Lechea major, Mx. St. Joseph.
minor, Walt. "Knobs."

DROSERACEÆ.

Drosera rotundifolia, L. Lake and Noble.
intermedia, Drev. & Hayne, var.
Americana, DC. Lake.

HYPERICACEÆ.

Ascyrum Crux-Andreæ, L. Jefferson. "Knobs."
Hypericum Kalmianum, L. Lake and LaPorte.
prolificum, L. Gibson and Jefferson.
adpressum, Bart. Gibson.
sphærocarpon, Mx. "Knobs." Carroll.
perforatum, L.
corymbosum, Muhl.
mutilum, L.
Canadense L.
" var. **major**, LaPorte.
Elodes Virginica, Nutt. Northern swamps. "Cypress swamps," Gibson.
Elatine Americana, Arn. Gibson.

CARYOPHYLLACEÆ.

Saponaria officinalis, L.
Vaccaria, L. Jefferson and Lake.
Silene stellata, Ait. General but not abundant.
nivea, DC. Carroll and Jefferson.
Pennsylvanica, Mx. Jefferson and Tippecanoe.
Virginica, L.
regia, Sims. "Knobs." Gibson.
Armeria, L. Gibson, escaped.
antirrhina, L.
noctiflora, L. Jefferson, on river bank.
Lychnis Githago, Lam.
Arenaria stricta, Mx. Lake.
patula, Mx. Tippecanoe.
Stellaria media, Smith.
pubera, Mx.
longifolia, Muhl. Jefferson and Gibson.
longipes, Goldie. Tippecanoe.
Cerastium vulgatum, L.
viscosum, L.
nutans, Raf.
oblongifolium, Torr. Tippecanoe and Gibson.

Sagina apetala, L. Gibson.
decumbens, T. & G. (*S. subulata*, Wimmer) Jefferson and Clark.
Anychia dichotoma, Mx. Tippecanoe River. Jefferson. Common.

PORTULACACEÆ.

Portulaca oleracea, L.
grandiflora, Hook. Escaped occasionally.
Talinum teretifolium, Pursh. Lake.
Claytonia Virginica, L.

MALVACEÆ.

Malva rotundifolia, L.
sylvestris, L. Gibson.
Napæa dioica, L. Carroll.
Sida spinosa, L.
Abutilon Avicennæ, Gærtn.
Hibiscus Moscheutos, L. "Knobs."
grandiflorus, Mx. Gibson.
militaris, Cav. "Knobs." Jefferson.
Trionum, L. Jefferson.

TILIACEÆ.

Tilia Americana, L.
heterophylla, Vent. South. Rarer than the last.

LINACEÆ.

Linum Virginianum, L.
striatum, Walt. Credited to Jefferson Co., but doubtful.
sulcatum, Riddell. Jasper. Lake.
usitatissimum, L.

GERANIACEÆ.

Geranium maculatum, L.
Carolinianum, L. Gibson.
Impatiens pallida, Nutt.
fulva, Nutt.
Oxalis Acetosella, L. LaPorte.
violacea, L.
corniculata, L., var. **stricta**, Sav. (*O. stricta*, L.)
Fiœrkea proserpinacoides, Willd. Tippecanoe, Marion and Monroe.

RUTACEÆ.

Xanthoxylum Americanum, Mill. Gibson, Jefferson. General?
Ptelea trifoliata, L.

SIMARUBACEÆ.

Ailanthus glandulosus, Desf. Commonly planted. Well established and rapidly spreading in Jefferson.

ANACARDIACEÆ.

Rhus typhina, L. Gibson, Posey and Lake.
glabra, L.

copallina, L.
venenata, DC. "Knobs." Lake.
Toxicodendron, L. Very variable in habit.
aromatica, Ait. Jefferson and Lake.

Vitis Labrusca, L. Jefferson.
æstivalis, Michx.
cordifolia, Michx.
riparia, Michx. Gibson, Posey and Tippecanoe.
indivisa, Willd. "Knobs." Jefferson and Gibson.

Ampelopsis quinquefolia, Michx.

RHAMNACEÆ.

Rhamnus lanceolata, Ph. Clark and Tippecanoe.
Ceanothus Americanus, L. Gibson and Northward.

CELASTRACEÆ.

Celastrus scandens, L.
Euonymus atropurpureus, Jacq. General but not abundant southward.
Americanus, L.
" var. obovatus, T. & G.

SAPINDACEÆ.

Staphylea trifolia, L.
Æsculus glabra, Willd.
flava, Ait.
Acer saccharinum, Wang.
" var. nigrum, T. & G. Monroe, Marion.
dasycarpum, Ehrhart.
rubrum, L.
Negundo aceroides, Mœnch. Not abundant. Planted on the prairies for a "wind-break."
Cardiospermum Halicacabum, L. Escaped. Adventive?

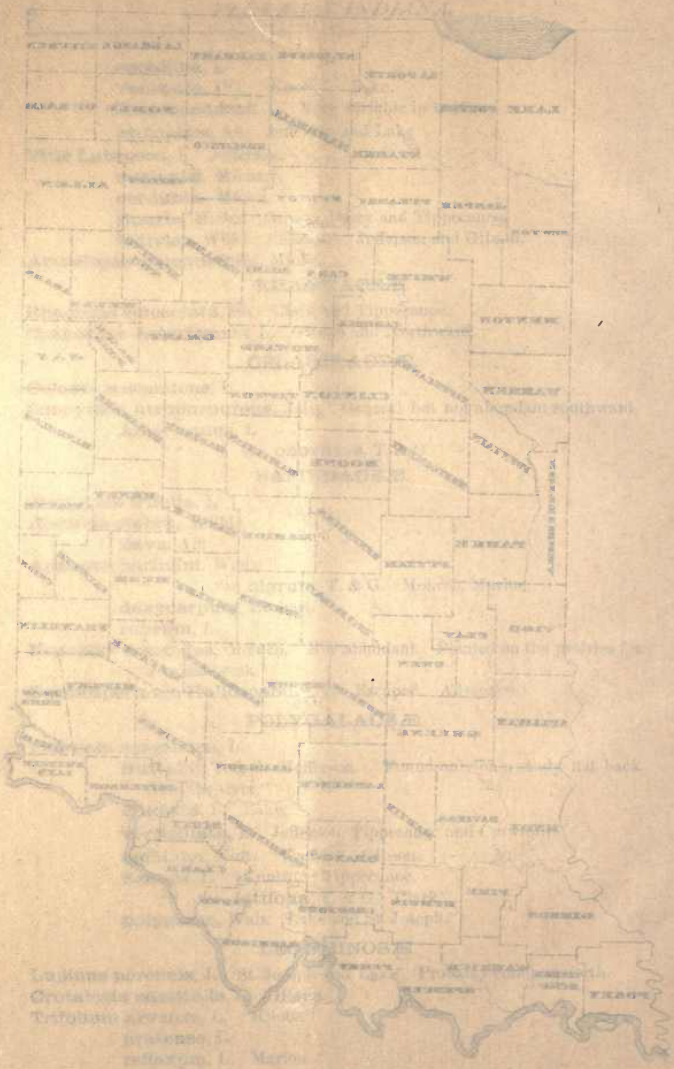
POLYGALACEÆ.

Polygala sanguinea, L.
Nuttallii, T. & G. Jefferson. "Found only on a sandy flat back from the river."
cruciata, L. Lake.
verticillata, L. Jefferson, Tippecanoe and Crawford.
ambigua, Nutt. "Knobs." Gibson.
Senega, L. "Knobs." Tippecanoe.
" var. latifolia, T. & G. Clark.
polygama, Walt. Lake and St. Joseph.

LEGUMINOSÆ.

Lupinus perennis, L. St. Joseph and Lake. Probably common north.
Crotalaria sagittalis, L. Gibson.
Trifolium arvense, L. "Knobs."
pratense, L.
reflexum, L. Marion.

ST. JOSEPH
ELKHART
LA GRANGE
STEUBEN
LA PORTE
LAKE
PORTER
NOBLE
DE KALB
MARSHALL
STARKE
KOSCIUSCO
WHITLEY
ALLEN
JASPER
PULASKI
FULTON
NEWTON
WHITE
CASS
MIAMI
WABASH
HUNTINGTON
ADAMS
WELLS
BENTON
CARROLL
HOWARD
GRANT
BLACKFORD
JAY
WARREN
TIPPECANOE
CLINTON
TIPTON
MADISON
DELAWARE
RANDOLPH
VERMILLION
FOUNTAIN
MONTGOMERY
BOONE
HAMILTON
HENRY
WAYNE
PARKE
PUTNAM
HENDRICKS
MARION
HANCOCK
RUSH
FAYETTE
UNION
MORGAN
JOHNSON
SHELBY
VIGO
CLAY
FRANKLIN
OWEN
DECATUR
BROWN
BARTHOLOMEW
RIPLEY
DEARBORN
MONROE
SULLIVAN
GREENE
JENNINGS
OHIO
JACKSON
SWITZERLAND
JEFFERSON
LAWRENCE
KNOX
DAVIESS
MARTIN
WASHINGTON
SCOTT
ORANGE
CLARK
FLOYD
PIKE
DUBOIS
CRAWFORD
GIBSON
HARRISON
WARRICK
PERRY
VANDERBURG
SPENCER
POSEY



stoloniferum, Muhl. Marion. "Knobs."
repens, L.
Melilotus officinalis, Willd. Marion.
alba, Lam.
Medicago lupulina, L. Tippecanoe and Monroe.
Psoralea Onobrychis, Nutt. "Knobs." Gibson and Carroll.
stipulata, T. & G. "Knobs."
melilotoides, Michx. "Knobs." Gibson.
Petalostemon violaceus, Michx. Prairies generally.
candidus, Michx. With the last.
Amorpha fruticosa, L. Gibson.
canescens, Nutt. Prairies northwestward.
Robinia Pseudacacia, L. Generally planted and extensively naturalized.
Wistaria frutescens, DC. Gibson.
Tephrosia Virginiana, Pers. "Knobs." LaPorte. Lake.
Astragalus Plattensis, Nutt. Tippecanoe!
Canadensis, L. Jefferson and Gibson.
Desmodium nudiflorum, DC.
acuminatum, DC.
pauciflorum, DC. Jefferson and Gibson.
rotundifolium, DC.
canescens, DC. Jefferson and Carroll.
cuspidatum, T. & G. Jefferson and Gibson.
viridiflorum, Beck. "Knobs." Gibson. Jefferson?
Dillenii, Darlingt.
paniculatum, DC.
Canadense, DC. Jasper, Jefferson, LaPorte, Monroe.
sessilifolium, T. & G. Gibson and Lake.
rigidum, DC.
ciliare, DC. Jefferson, Gibson and Monroe.
Marylandicum, Boott. Gibson.
Lespedeza repens, Barton. (Including *L. procumbens*, Mx.) "Knobs." Jefferson and Gibson.
violacea, Pers. Jefferson. Tippecanoe.
reticulata, Pers. (*L. violacea*, Pers., var. *sessiliflora*, Gray.) Tippecanoe.
" var. **angustifolia**, Max. (*L. violacea*, Pers., var. *angustifolia*, Gray.) Gibson, Jefferson, Tippecanoe.
hirta, Ell. "Knobs." Gibson, Jefferson, Lake.
capitata, Michx. Jefferson, Gibson, Lake, Tippecanoe.
Stylosanthes elatior, Swtz. Gibson. "Knobs."
Vicia Caroliniana, Walt. "Knobs"
Lathyrus maritimus, Bigelow. Lake.
palustor, L. Carroll, Gibson and Tippecanoe.
" var. **myrtifolius**, Gray. Lake.
Apios tuberosa Mœnch. Gibson.
Phaseolus perennis, Walt. Jefferson, Gibson, Monroe.
diversifolius, Pers. Sandy places.

helvolus, L. "Barrens." Jefferson. Gibson.
pauciflorus, Benth. Gibson.
Amphicarpæa monoica, Ell.
Baptisia australis, R. Br. Banks of the Ohio. New Albany (*Dr. Clapp*). Jefferson.
leucantha, T. & G.
alba, R. Br. (*Dr. Clapp!* 1837.)
Cercis Canadensis, L.
Cassia Marylandica, L.
occidentalis, L. "Knobs."
Tora, L. (*C. obtusifolia*, L.) "Banks of Ohio River, Floyd."
Chamæcrista, L.
nictitans, L. Clark. Monroe. Gibson.
Gymnocladus Canadensis, Lam. Marion and southward along the Ohio River.
Gleditschia triacanthos, L. General but not abundant.
monosperma, Walt. Gibson in "Cypress swamps."
Desmanthus brachylobus, Benth. Clark. Abundant in one locality.

ROSACEÆ.

Prunus Americana, Marshall.
Chicasa, Michx. Gibson.
pumila, L. Lake.
Virginiana, L. Marion, Monroe, Tippecanoe. Planted for ornament.
serotina, Ehrhart.
Neillia opulifolia, Benth. & Hook. (*Spiræa opulifolia*, *L.*) Gibson, Jefferson and Monroe.
Spiræa salicifolia, L.
tomentosa, L. Jefferson.
lobata, Jacq. Meadows in Jefferson and Scott. Prairies northwest.
Aruncus, L. South.
Gillenia trifoliata, Mœnch. Gibson.
stipulacea, Nutt. "Knobs." Gibson.
Agrimonia Eupatoria, L.
parviflora, Ait. Jefferson, Gibson, Monroe.
Geum album, Gmelin.
Virginianum, L.
strictum, Ait. Jefferson. Common north?
vernum, T. & G.
Waldsteinia fragarioides, Tratt. Jefferson.
Potentilla Norvegica, L. Jefferson, Gibson.
Canadensis, L.
argentea, L. St. Joseph.
fruticosa, L. Noble. Lake.
palustris, Scop. Lake.
Fragaria Virginiana, Duchesne. Marion, Monroe.
" var. **Illinoensis**, Gray. Gibson, Jefferson.

vesca, L.

Rubus strigosus, Michx. Jefferson, Gibson, Marion.

occidentalis, L.

villosus, Ait.

" var. **humifusus**, Gray. Gibson, Jefferson.

Canadensis, L.

hispidus, L. Jefferson.

Rosa setigera, Michx.

Carolina, L.

parviflora, Ehrhart. (*R. lucida*, Ph.; of *Ehrhart* by mistake in Gray's Man. p. 158.)

nitida, Willd. Probably collected under the name *R. lucida*.

rubiginosa, L.

Cratægus coccinea, L.

tomentosa, L. Gibson, Jefferson, Monroe.

tomentosa, L. var. **pyrifolia**, Gray. Elkhart, Marion.

" var. **punctata**, Gray. "Knobs." Jefferson, Gibson.

subvillosa, Schrad. (*C. tomentosa*, L., var. *mollis*, Gray.) Gibson, Jefferson, Marion.

Crus-galli, L.

Pirus coronaria, L.

angustifolia, Ait. Jefferson, Gibson.

arbutifolia, L. "Knobs." Jefferson.

Amelanchier Canadensis, T. & G. var. **Botryapium**, Gray. "Knobs," Tippecanoe, Lake.

" var. **oblongifolia**, Gray. Lake.

alnifolia, Nutt. Jefferson.

SAXIFRAGACEÆ.

Ribes Cynosbati, L.

oxyacanthoides, L. (*R. hirtellum*, Michx.)

rotundifolium, Michx. "Rocks," Jefferson.

floridum, L'Her. Jefferson.

rubrum, L. LaPorte.

Hydrangea arborescens, L.

Philadelphus grandiflorus, Willd. Growing near the top of a rocky cliff in a cold ravine near Hanover, Jefferson Co.; apparently native. Flowers smaller than in the garden form.

Parnassia Caroliniana, Michx. Tippecanoe. Marion.

Saxifraga Pennsylvanica, L. "Knobs." Tippecanoe. Marion.

Sullivantia Ohionis, T. & G. Jefferson. Clark. Carroll. Always under drippings on limestone cliffs; rooting in moss.

Heuchera villosa, Michx. Clark.

Americana, L.

Mitella diphylla, L.

Tiarella cordifolia, L. St. Joseph.

CRASSULACEÆ.

Penthorum sedoides, L.
Sedum ternatum, Michx.
telephioides, Michx. "Knobs." Clark (Utica).

HAMAMELACEÆ.

Hamamelis Virginiana, L.
Liquidambar Styraciflua, L. More abundant southward.

HALORAGEÆ.

Myriophyllum spicatum, L. LaPorte.
heterophyllum, Michx. Gibson.
ambiguum, Nutt., var. **capillaceum**, Gray. Gibson.
Proserpinaca palustris, L. Jefferson. Gibson.

ONAGRACEÆ.

Circæa Lutetiana, L.
alpina, L. Carroll and Jefferson.
Gaura biennis, L. Prairies west and southwest.
Epilobium palustre, L., var. **lineare**, Gray. LaPorte. Noble.
molle, Torr. "Knobs"(*Dr. Clapp.*)
coloratum, Muhl.
Œnothera biennis, L.
rhombipetala, Nutt. Lake.
fruticosa, L.
Jussiæa decurrens, DC. "Knobs"(*Dr. Clapp.*)
Ludwigia alternifolia, L.
polycarpa, Short & Peter. "Knobs." Gibson.
palustris, Ell. Jefferson. Gibson. Monroe. Probably general.

MELASTOMACEÆ.

Rhexia Virginica, L. Jefferson.

LYTHRACEÆ.

Ammannia humilis, Michx. Jefferson. Clark.
latifolia, L. Gibson.
Lythrum alatum, Pursh. "Knobs." Gibson. Prairies northwest.
Nesæa verticillata, HBK. Gibson and Posey. Rare.
Cuphæa viscosissima, Jacq. Jefferson and Gibson.

CACTACEÆ.

Opuntia vulgaris, Haworth. "Escaped from cultivation to old stumps and rocky places," Gibson.
Rafinesquii, Engelm. Tippecanoe. Lake.

FICOIDEÆ.

Mollugo verticillata, L.

PASSIFLORACEÆ.

Passiflora lutea, L. Jefferson. Gibson. Monroe.

CUCURBITACEÆ.

Sicyos angulatus, L. Jefferson. Gibson. Marion.
Echinocystis lobata, Torr & Gray. Gibson. Carroll. Marion.
Melothria pendula, L. Clark. Collected but once.

UMBELLIFERÆ.

Hydrocotyle Americana, L. Jefferson.
umbellata, L. Sandy shores of Clear Lake, LaPorte.
Sanicula Canadensis, L. Jefferson. Gibson.
Marylandica, L.
Eryngium yuccæfolium, Michx. "Barrens," Floyd and Washington. Gibson. Prairies northward.
Daucus Carota, L. Escaped, abundant.
Polytænia Nuttallii, DC. "Barrens" (*Dr. Clapp.*)
Heracleum lanatum, Michx. Marion.
Pastinaca sativa, L.
Archemora rigida, DC. Jefferson. Gibson.
Thaspium barbinode, Nutt. Jefferson. Monroe.
aureum, Nutt.
trifoliatum, Gray. Jefferson. Gibson. Monroe.
Pimpinella integerrima, Benth. & Hook. (*Zizia integerrima*, DC.) Jefferson. Gibson. Monroe. Tippecannoe.
Cicuta maculata, L.
bulbifera, L. LaPorte. Cass. Lake. St. Joseph.
Sium cicutæfolium, Gmelin. (*S. lineare*, Mx.) LaPorte. Gibson.
Cryptotænia Canadensis, DC.
Chærophyllum procumbens, Crantz. Jefferson. Gibson. Tippecanoe.
Osmorrhiza longistylis, DC. Gibson. Jefferson. Tippecanoe.
brevistylis, DC.
Conium maculatum, L. Gibson.
Eulophus Americanus, Nutt. "Prairies, rare," Gibson.
Erigenia bulbosa, Nutt.

ARALIACEÆ.

Aralia spinosa, L. Jefferson.
racemosa, L. Jefferson. Gibson.
nudicaulis, L. Gibson.
quinquefolia, Decaisne & Planchon.
Cornus Canadensis, L. Marion.
florida, L.
circinata, L'Her. Lake.
sericea, L. Lake. Gibson. Jefferson.
stolonifera, Michx. Marion. Lake. Noble.
asperifolia, Michx. "Knobs." Jennings.

paniculata, L'Her. Gibson. Monroe. Jefferson.
alternifolia, L. Tippecanoe. Monroe.
Nyssa multiflora. Wang. Lake, Jefferson, Monroe, Gibson.

CAPRIFOLIACEÆ.

Linnæa borealis, Gronov. Lake.
Symphoricarpus occidentalis, R. Br. Marion.
vulgaris, Michx. South.
Lonicera sempervirens, Ait. "Sparingly spontaneous," Jefferson.
parviflora, Lam Clark, Lake, Tippecanoe.
Diervilla trifida, Moench. Lake.
Triosteum perfoliatum, L. Marion, Monroe, Jefferson.
angustifolium, L. "Knobs" (*Dr. Clapp.*)
Sambucus Canadensis, L.
Viburnum Lentago, L. Gibson. Jefferson. Monroe. Marion.
prunifolium, L.
dentatum, L. Jefferson. Tippecanoe. Gibson.
molle, Michx. Jefferson.
pubescens, Pursh. Lake. Jefferson.
acerifolium, L. Jefferson. Monroe.

RUBIACEÆ.

Galium Aparine, L.
asprellum, Michx. Marion.
concinnum, Torr. & Gray. Jefferson.
trifidum, L. Very common.
" var. tinctorium, Gr.
" " latifolium, Gr.
triflorum, Michx. Jefferson. Cass. Marion. Monroe.
pilosum, Ait. Lake.
circæzans, Michx.
boreale, L. Lake.
Spermacoce glabra, Michx. Jefferson. Gibson.
Diodia teres, Walt. Gibson.
Cephalanthus occidentalis, L.
Mitchella repens, L. Dry woods.
Houstonia purpurea, L. Jefferson. Gibson. Monroe.
" var. ciliolata, Gray. Clark. Tippecanoe.
cærulea, L. Wet meadows.

VALERIANACEÆ.

Valeriana pauciflora, Michx. South.
Fedia olitoria, Vahl. Escaped in Jefferson.
radiata, Michx. Marion.

DIPSACEÆ.

Dipsacus sylvestris, Mill.

COMPOSITÆ.

Vernonia Noveboracensis, Willd. Gibson, Monroe.
fasciculata, Michx.
Elephantopus Carolinianus, L. Jefferson, Gibson.
Liatris squarrosa, Willd. Gibson.
cylindracea, Michx. St Joseph, Lake, Gibson.
scariosa, Willd. "Barrens." St. Joseph, Gibson.
spicata, Willd. St. Joseph, Lake.
pycnostachya, Michx. Gibson. Prairies throughout the north.
Kuhnia eupatorioides, L. Tippecanoe, Marion, Gibson.
Eupatorium purpureum, L.
hyssopifolium, L. (From specimens in the herbarium of La Fayette High School. Locality not certain but probably Tippecanoe Co.)
altissimum, L. "Knobs." Gibson.
sessilifolium, L. "Knobs." Tippecanoe, Gibson.
perfoliatum, L.
serotinum, Michx. Gibson, Jefferson, Tippecanoe.
ageratoides, L.
Mikania scandens, L. Gibson.
Conoclinium cœlestinum, DC. Jefferson, Gibson, Marion.
Sericocarpus solidagineus, Nees. Floyd. (*Dr. Clapp*, 1838.)
Aster patens, Ait. Gibson.
lævis, L. Gibson.
azureus, Lindl. Gibson, Jefferson, Tippecanoe.
Shortii, Boott. "Knobs." Tippecanoe, Jefferson.
undulatus, L. Jefferson, Monroe, Gibson.
cordifolius, L.
sagittifolius, Willd. "Knobs." Gibson, Monroe, Jefferson.
ericoides, L. Jefferson. Also the var. *villosus*.
multiflorus, Ait. Jefferson, Tippecanoe.
dumosus, L. Jefferson, Monroe, Gibson.
Tradescanti, L. Jefferson.
miser, L., Ait. Jefferson, Gibson, Marion.
simplex, Willd. "Knobs."
tenuifolius, L. Gibson, Jefferson.
carneus, Nees. "Knobs." Gibson.
longifolius, Lam. Noble.
puniceus, L.
prenanthoides, Muhl. "Knobs." Jefferson, Tippecanoe.
oblongifolius, Nutt. Jefferson, Gibson.
Novæ-Angliæ, L. Tippecanoe, Jefferson, Gibson.
ptarmicoides, Torr. & Gray. Lake.
Erigeron Canadense, L.
divaricatum, Michx. Gibson, Jefferson. "Knobs."
bellidifolium, Muhl.

Philadelphicum, L.
annuum, Pers.
strigosum, Muhl.
Diplopappus linariifolius, Hook. "Knobs."
umbellatus, Torr. & Gray. Jefferson, Lake.
Boltonia glastifolia, L'Her. Gibson, Jefferson.
Brachychæta cordata, Torr. & Gray. Jefferson, especially at "Clifty Falls."
Solidago bicolor, L. Scott, Jefferson.
latifolia, L. Jefferson, Monroe.
cæsia, L.
stricta, Ait. St. Joseph.
rigida, L. "Knobs." "Barrens." Moist prairies, Gibson and north.
Ohioensis, Riddell. Lake, Tippecanoe.
Riddellii, Frank. Tippecanoe.
neglecta, Torr. & Gray. Jefferson.
patula, Muhl. "Knobs." Gibson.
arguta, Ait. Jefferson, Gibson, Monroe.
" var. **scabrella**, Gray. Jefferson.
altissima, L.
ulmifolia, Muhl. Jefferson, Gibson.
odora, Ait. "Sandy soil, scarce," Gibson. Dr. Schneck is inclined to doubt this species.
nemoralis, Ait. Carroll. "Knobs." Jefferson, Gibson. (General?)
Shortii, Torr. & Gray. "Knobs."(*Dr. Clapp.*)
Missouriensis, Nutt. Prairies.
rupestris. Raf. *Gray*, Manual, p. 245.
Canadensis, L.
serotina, Ait. Jefferson.
gigantea, Ait. Marion, Jefferson, Jasper.
lanceolata, L. Jefferson, Gibson.
tenuifolia, Pursh. Jasper.
Inula Helenium, L.
Pluchea fœtida, DC. Jefferson, Gibson.
Polymnia Canadensis, L.
Uvedalia, L. Both species general but not abundant.
Silphium laciniatum, L. "Knobs." Prairies.
terebinthinaceum, L. With the last.
trifoliatum, L. Jefferson.
integrifolium, Michx. Prairies.
perfoliatum, L. Jefferson, Lake, Marion, Gibson.
Parthenium integrifolium, L. "Knobs." Prairies.
Ambrosia bidentata, Michx. Gibson.
trifida, L.
" var. **integrifolia**, Gray. Gibson.

artemisiæfolia, L.
Xanthium strumarium, L.
spinosum, L. Jefferson.
Eclipta procumbens, Michx. Johnson, Jefferson, Gibson.
" var. **brachypoda**, Gray. Gibson.
Heliopsis lævis, Pers.
" var. **scabra**, Gray.
Echinacea purpurea, Mœnch. "Barrens." Prairies.
Rudbeckia laciniata, L.
subtomentosa, Pursh. "Knobs." Elkhart, Gibson.
triloba, L.
hirta, L.
Lepachys pinnata, Torr. & Gray. Carroll, La Porte.
Helianthus annuus, L.
lætiflorus, Pers. Jasper, Jefferson, Gibson.
occidentalis, Riddell. "Knobs." St. Joseph, L. S. & M. S. R. R.
mollis, Lam. Jasper, Gibson, Vermillion.
microcephalus, Torr. & Gray. "Knobs." Jefferson.
giganteus, L.
grosse-serratus, Martens. Gibson, Jasper.
strumosus, L. Carroll.
divaricatus, L. Lake, St. Joseph. "Knobs."
hirsutus, Raf. "Knobs." Jasper.
tracheliifolius, Willd. Jefferson, Carroll.
decapetalus, L. Gibson, Carroll, Jefferson, Monroe.
doronicoides, Lam. Jefferson, Gibson.
tuberosus, L. Gibson, Marion.
Actinomeris squarrosa, Nutt. Gibson, Jefferson.
helianthoides, Nutt. "Knobs." Gibson, Marion.
Coreopsis lanceolata, L. Lake, Marion.
palmata, Nutt. La Porte.
tripteris, L. Gibson, Jefferson.
aristosa, Michx. "Knobs." Noble, Gibson.
trichosperma, Michx. Jefferson.
discoidea, Torr. & Gray. Gibson.
Bidens frondosa, L.
connata, Muhl.
cernua, L. Jefferson.
chrysanthemoides, Michx. Marion, Jefferson, Gibson.
bipinnata, L.
Dysodia chrysanthemoides, Lag. Jennings, Jefferson, Marion.
Helenium autumnale, L.
Leptopoda brachypoda, Torr. & Gray. Gibson, Marion, Jefferson, Monroe.
Anthemis Cotula, L. (*Maruta Cotula*, L.)
Achillea Millefolium, L.
Leucanthemum vulgare, Lam. Floyd, Monroe, Jefferson, Marion.

Tanacetum vulgare, L.
" var. **crispum**, Gray. Commoner than the typical.
Artemisia Canadensis, Michx. Lake.
caudata, Michx. Lake.
biennis, Willd.
Absinthium, L. Escaped from gardens.
annua, L. Gibson.
Gnaphalium polycephalum, Michx.
uliginosum, L. Jefferson, Montgomery.
purpureum, L.
Anaphalis (Antennaria) margaritacea, Benth & Hook. Gibson, Marion.
Antennaria plantaginifolia, Hook.
Erechthites hieracifolia, Raf.
Cacalia suaveolens, L. Gibson, Marion.
reniformis, Muhl. Jefferson, Marion.
atriplicifolia, L. Monroe, Jefferson, Gibson.
tuberosa, Nutt. Lake, St. Joseph.
Senecio aureus, L.
" var. **obovatus**, Gray.
Centaurea Cyanus, L. Monroe, Gibson.
Cnicus (Cirsium) lanceolatus, Hoffm.
discolor, Muhl.
Virginianus, Pursh. "Knobs."
altissimus, Willd. Gibson, Jefferson, Marion.
muticus, Pursh. Noble.
arvensis, Hoffm. Jefferson, Marion, Carroll.
Onopordon acanthium, L. Jefferson.
Lappa officinalis, Allioni.
Cichorium Intybus, L. Jefferson, Marion.
Krigia Virginica, Willd. Lake, La Porte.
Cynthia Virginica, Don.
Dandelion, DC. "Knobs." Gibson.
Hieracium Canadense, Michx. Lake.
scabrum, Michx. Jefferson, Gibson. "Knobs."
longipilum, Torr. Gibson.
Gronovii, L. "Barrens." Tippecanoe, Jefferson, Carroll, Gibson.
venosum, L. "Knobs." Monroe.
paniclatum, L. "Knobs." Jefferson, Monroe.
Nabalus albus, Hook. Jefferson, Marion, Monroe.
" var. **serpentaria**, Gray. "Barrens."
altissimus, Hook. Gibson, Jefferson, Monroe.
asper, Torr. & Gray. "Barrens." Jefferson.
crepidineus, DC. "Knobs." Jefferson.
Taraxacum Dens-leonis, Desf.
Lactuca Canadensis, L.
" var, **integrifolia**, Torr. & Gray.
sanguinea, Torr. & Gray. Gibson.

Physalis angulata, L. Marion. (*Ansil Moffatt.*)
Philadelphica, Lam. Jefferson.
pubescens, L.
viscosa, L. Jefferson, Gibson.
lanceolata, Michx. (*P. Pennsylvanica*, L.) Gibson, Marion.
Nicandra physaloides, Gærtn. Jefferson, Gibson.
Lycium vulgare, Dunal. Escaped in Jefferson and Gibson.
Datura Stramonium, L. Not so common as the next.
Tatula, L.

SCROPHULARIACEÆ.

Verbascum Thapsus, L.
Blattaria, L.
Linaria Canadensis, Dumont. Lake. (*E. J. Hill.*)
vulgaris, Mill.
Antirrhinum majus, L. Jefferson, Gibson.
Collinsia verna, Nutt.
Scrophularia nodosa, L.
Chelone glabra, L. Jefferson, Gibson, Marion and northward.
obliqua, L. Gibson. (*Dr. J. Schneck.*)
Penstemon pubescens, Solander.
lævigatus, Solander, var. **Digitalis**, Gray. (*P. Digitalis*, Nutt.) Gibson, Jennings, Marion.
Mimulus ringens, L.
alatus, Solander.
Conobea multifida, Benth. Banks of the Ohio and Wabash rivers. Upper leaves in whorls of three.
Gratiola Virginiana, L.
sphærocarpa, Ell. "Barrens" of Southern Indiana.
Ilysanthes gratioloides, Benth.
Synthyris Houghtoniana, Benth. Tippecanoe and northwest.
Veronica Virginica, L.
Anagallis, L. North.
officinalis, L. Jefferson.
serpyllifolia, L.
peregrina, L.
arvensis, L.
Buchnera Americana, L. Floyd, Harrison, Lake.
Seymeria macrophylla, Nutt. Near the Ohio and Wabash rivers.
Gerardia pedicularia, L. Northern tier of counties.
flava, L.
quercifolia, Pursh.
auriculata, Michx. Southeastern Indiana.
aspera, Dougl. Gibson. (*Dr. J. Schneck.*)
purpurea, L. Jefferson, Gibson.
tenuifolia, Vahl.

Skinneriana, Wood. Lake. (*E. J. Hill.*)
Castilleia coccinea, Spreng. North and west.
Pedicularis Candensis, L.
lanceolata, Michx. Gibson, Marion, Tippecanoe.

OROBANCHACEÆ.

Aphyllon uniflorum, Torr. and Gr. Clark and Marion.
Conopholis Americana, Wallroth. Jefferson and Clark.
Epiphegus Virginiana, Bart. Everywhere in beech woods.

LENTIBULARIACEÆ.

Utricularia vulgaris, L. North and west.
intermedia, Hayne.

BIGNONIACEÆ.

Bignonia capreolata, L. Southwestern Indiana.
Tecoma radicans, Juss.
Catalpa speciosa, Warder. All that was formerly called *C. bignonioides* in this State should now bear the above name, as it is specifically distinct from the eastern form. (Bot. Gaz., Vol. V, p. 1.)

PEDALIACEÆ.

Martynia proboscidea, Glox.

ACANTHACEÆ.

Ruellia ciliosa, Pursh. Central and northern.
strepens, L. Southern.
Dianthera Americana, L.

VERBENACEÆ.

Phryma Leptostachya, L.
Verbena officinalis, L. Jefferson.
urticæfolia, L.
angustifolia, Michx. Jefferson.
hastata, L.
stricta, Vent. Barrens and prairies.
bracteosa, Michx. Jefferson, Gibson.
Aubletia, L. Jefferson, Gibson. Rare except in cultivation.
Lippia lanceolata, Michx.

LABIATÆ.

Isanthus cæruleus, Michx. Most abundant south.
Teucrium Canadense, L.
Collinsonia Canadensis, L.
Mentha viridis, L.

piperita, L.
arvensis, L. Gibson. (*Dr. J. Schneck.*)
Canadensis, L.
" var. **glabrata**, Benth. Jefferson, Carroll.

Lycopus Virginicus, L.
rubellus, Mœnch. (*L. Europæus*, var. *integrifolius*, Gray.)
sinuatus, Ell. (*L. Europæus*, var. *sinuatus*, Gray.) Johnson.

Cunila Mariana, L. "Knobs."

Pycnanthemum linifolium, Pursh. Southern counties.
lanceolatum, Pursh.
muticum, Pers. Gibson. (*Dr. J. Schneck.*)
" var. **pilosum**, Gray. (*P. pilosum*, Nutt.) Marion and southwest.
incanum, Michx. Jefferson and Gibson.

Satureia hortensis, L. Escaped in Gibson.

Calamintha glabella, Benth. Clark.

Melissa officinalis, L. Escaped in Jefferson.

Hedeoma pulegioides, Pers.

Salvia lyrata, L. Jefferson, Clark, Marion.

Monarda didyma, L. Escaped from cultivation in Gibson.
fistulosa, L.
Bradburiana, Beck. Common in the south west.
punctata, L. Marion and northward.

Blephilia ciliata, Raf.
hirsuta, Benth.

Lophanthus nepetoides, Benth.
scrophulariæfolius, Benth.

Nepeta Cataria, L.
Glechoma, Benth.

Scutellaria lateriflora, L.
versicolor, Nutt. River banks.
serrata, Andr. Gibson.
canescens, Nutt.
pilosa, Michx. "Knobs." (*Dr. A. Clapp.*)
parvula, Michx.
galericulata, L. Marion and northern counties.
nervosa, Pursh. Floyd and Clark.

Brunella vulgaris, L.

Physostegia Virginiana, Benth. Gibson, Jefferson, Marion, Tippecanoe.

Synandra grandiflora, Nutt. Banks of the Ohio and its tributaries.

Marrubium vulgare, L.

Leonurus Cardiaca, L,

Lamium amplexicaule, L.

Galeopsis Tetrahit, L. Marion, Jefferson.

Stachys hyssopifolia, Michx. Marion and northward.

palustris, L. Gibson, Marion.
aspera, Michx. (*S. palustris*, var. *aspera*, Gray.) Jefferson and Gibson.
" var. **glabra**, Gray. (*S palustris*, var. *glabra*, Gray.) Jefferson and Gibson.
cordata, Riddell. (*S. palustris*, var. *cordata*, Gray.) Jefferson and Gibson. (BOT. GAZETTE, Vol. I, p. 25.)

PLANTAGINACEÆ.

Plantago cordata, Lam. Southwest.
major, L.
Rugelii, Decaisne. (BOT. GAZETTE, Vol. III, p. 41.)
lanceolata, L.
Virginica, L. Abundant south.
pusilla, Nutt. Gibson. (*Dr. J. Schneck.*)

ARISTOLOCHIACEÆ.

Asarum Canadense, L.
Aristolochia Serpentaria, L. Crawford, Jefferson, Marion, Gibson.
tomentosa, Sims. Gibson.

PHYTOLACCACEÆ.

Phytolacca decandra, L.

CHENOPODIACEÆ.

Chenopodium album, L.
viride, L. Gibson. (*Dr. J. Schneck.*) (BOT. GAZ., Vol. VI, p, 225.)
urbicum, L. Marion, Tippecanoe.
hybridum, L. Marion. (*Ansil Moffatt.*)
Botrys, L.
ambrosioides, L.
" var. **anthelminticum**, Gr.
Corispermum hyssopifolium, L. Shores of Lake Michigan.

AMARANTACEÆ.

Amarantus hypochondriacus, L. Gibson, Marion.
paniculatus, L. Gibson, Marion.
retroflexus, L.
albus, L. Jefferson, Marion, Jasper.
spinosus, L.
Acnida tuberculata, Moquin-Tandon. (*Montelia tamariscina*, Gr., var *concatenata.*) *A. tamariscina*, Gr. (*Montelia tamariscina*, Gr.) is not found within our limits. (BOT. GAZ., Vol, I, p. 48.)
Iresine celosioides, L. Floyd, Gibson.

POLYGONACEÆ.

Polygonum orientale, L. Gibson, Jefferson, "Knobs," Marion.
Careyi, Olney. Marion, Noble.
Pennsylvanicum, L.
incarnatum, Ell.
Persicaria, L.
Hydropiper, L.
acre, HBK
hydropiperoides, Michx.
amphibium, L. West and north.
Muhlenbergii, Watson. (*P. amphibium*, var. *terrestre*, Gray, Manual, 416; not of Willd.) Lake.
Virginianum, L.
articulatum, L. Lake.
aviculare, L.
erectum, L. (*P. aviculare*, var. *erectum*, Roth.)
tenue, Michx. Lake.
sagittatum, L.
Convolvulus, L. Jefferson, Marion.
dumetorum, L., var. **scandens**, Gr.
Fagopyrum esculentum, Mœnch.
Rumex altissimus, Wood. (*R. Britanica*, L.)
verticillatus, L.
crispus, L.
obtusifolius, L.
conglomeratus, Murray. Jefferson.
sanguineus, L. Gibson.
maritimus, L. Marion.
Acetosella, L.

LAURACEÆ.

Sassafras officinale, Nees.
Lindera Benzoin, Meisner.

THYMELEACEÆ.

Dirca palustris, L. Throughout the State, but most abundant in the northern part.

ELÆAGNACEÆ.

Shepherdia Canadensis, Nutt. Lake.

SANTALACEÆ.

Comandra umbellata, Nutt. Gibson, Jefferson, Tippecanoe.

LORANTHACEÆ.

Phoradendron flavescens, Nutt. Common south. Most frequent on the Elm.

SAURURACEÆ.

Saururus cernuus, L. Quite common and fragrant.

CERATOPHYLLACEÆ.

Ceratophyllum demersum, L. Gibson.

CALLITRICHACEÆ.

Callitriche Austini, Engelm. Gibson.
heterophylla, Pursh. Gibson.

EUPHORBIACEÆ.

Euphorbia polygonifolia, L. Lake.
maculata, L.
humistrata, Engelm. Along the Ohio and lower Wabash.
hypericifolia, L.
marginata, Pursh. Sparingly escaped throughout the State, but covering the river hills in Jefferson.
corollata, L.
dentata, Michx. Marion, Montgomery.
Ipecacuanhæ, L. "Knobs," Marion.
obtusata, Pursh. Gibson.
Cyparissias, L. Escaped throughout the State.
commutata, Engelm.
Acalypha Virginica, L.
" var. **gracilens**, Gray. Less common than the species.
Croton capitatus, Michx. Barrens of Floyd, Harrison, etc.
monanthogynus, Michx. With the last and more general throughout the "Knobs."
Phyllanthus Carolinensis, Walt. Southern counties.

URTICACEÆ.

Ulmus fulva, Michx.
Americana, L.
racemosa, Thomas. Banks of the Ohio.
alata, Michx. Rare along streams.
Celtis occidentalis, L. Gibson, Marion.
" var. **Mississippiensis**, Bosc. Gibson.
Morus rubra, L. General but not abundant.

Urtica gracilis, Ait.
dioica, L. Marion.
Laportea Canadensis, Gaudichaud.
Pilea pumila, Gray.
Bœhmeria cylindrica, Willd.
Parietaria Pennsylvanica, Muhl. Southern counties.
Cannabis sativa, L.
Humulus Lupulus, L.

PLATANACEÆ.

Platanus occidentalis, L.

JUGLANDACEÆ.

Juglans cinerea, L.
nigra, L.
Carya olivæformis, Nutt. Banks of the Ohio and lower Wabash.
alba, Nutt.
microcarpa, Nutt. Tippecanoe and southward.
sulcata, Nutt. South.
tomentosa, Nutt. South.
porcina, Nutt.
amara, Nutt.

CUPULIFERÆ.

Quercus alba, L.
stellata, Wang. (*Q. obtusiloba*, Michx.)
macrocarpa, Michx.
" var. **olivæformis**. Gibson.
lyrata, Walt. Lower Wabash.
bicolor, Willd.
Michauxii, Nutt. South. Dr. Engelmann considers this a subspecies of *bicolor*. It replaces some forms of *Q. Prinus*, L. as found in Gray's Manual.
Muhlenbergii, Engelm. (*Q. Prinus*, L., var. *acuminata*, Michx.) In Indiana this species entirely supplants *Q. Prinus* of the East.
rubra, L.
coccinea, Wang.
" var. **tinctoria**, Gr. This is probably entitled to the specific rank that Bartram first assigned it.
falcata, Michx. General but by no means abundant in southern counties.
palustris, DuRoi.
nigra, L. Barrens north and south.

imbricaria, Michx.
Phellos, L. Southwest.
Castanea vesca, L., var. Americana, Michx. Getting to be generally distributed, but probably not a native.
Fagus ferruginea, Ait.
Corylus Americana, Walt.
Ostrya Virginica, Willd.
Carpinus Americana, Michx.

BETULACEÆ.

Betula lenta, L. Gibson.
papyracea, Ait. Lake. (*E. J. Hill.*)
nigra, L. Gibson.
pumila, L. Northern counties.
Alnus incana, Willd. Lake.
serrulata, Ait.

SALICACEÆ.

Salix candida, Willd. Northern counties.
tristis, Ait.
humilis, Marshall.
discolor, Muhl.
sericea, Marshall. Floyd. (*Dr. A. Clapp.*)
petiolaris, Smith.
cordata, Muhl.
livida, Wahl., var. occidentalis, Gr. Tippecanoe.
lucida, Muhl. Most common in northern counties.
nigra, Marsh. Most common in southern counties.
alba, L., var. vitellina, Gr.
longifolia, Muhl.
myrtilloides, L. Lake. (*E. J. Hill.*)
Populus tremuloides, Michx.
heterophylla, L. Lower Wabash.
monilifera, Ait.

CONIFERÆ.

Pinus Banksiana, Lambert. Lake. (*E. J. Hill.*)
mitis, Michx. South.
Strobus, L.
Larix Americana, Michx. Northern counties.
Thuja occidentalis, L. Northern counties.
Taxodium distichum, Richard. Common along the Lower Wabash.
Juniperus communis, L. General but not abundant.
Virginiana, L.

ARACEÆ.

Arisæma triphyllum, Torr.
Dracontium, Schott. Not so common as the last.
Peltandra Virginica, Raf. Gibson.
Symplocarpus fœtidus, Salisb. More abundant in northern counties.
Acorus Calamus, L. Gibson, Marion.

LEMNACEÆ.

Lemna trisulca, L. Gibson.
minor, L. Not so common as the next.
Speirodela polyrrhiza, Schleid. (*Lemna polyrrhiza*, L.)
Wolffia Columbiana, Karsten. Stagnant water in the northern counties.
Brasiliensis, Weddell. With the last.

TYPHACEÆ.

Typha latifolia, L.
Sparganium eurycarpum, Engelm. Most common north.
simplex, Hudson, var. **androcladum**, Engelm. Gibson.
minimum, Bauhin, Fries. Lake. (*E. J. Hill.*)

NAIADACEÆ.

Naias Indica, Cham., var. **gracillima**, Braun. Gibson. (*Dr. J. Schneck.*)
flexilis, Rostk. Lower Wabash.
Potamogeton natans, L.
Claytonii, Tuckerman. Gibson.
lonchites, Tuckerman. Wabash river. (*Dr. J. Schneck.*)
gramineus, L., var. ? **spathulæformis**, Robbins. Wabash river on floating logs. (*Dr. J. Schneck.*)
lucens, L. Gibson, Lake.
" var. **minor**, Nolte. Lake.
compressus, L. Carroll, Laporte.
pauciflorus, Pursh. Jefferson, Gibson.
pusillus, L., var. **tenuissimus**, Mertens & Koch. Gibson. (*Dr. J. Schneck.*)
pectinatus, L. Wabash river.

ALISMACEÆ.

Triglochin maritimum, L. Lake. (*E. J. Hill.*)
Alisma Plantago, L., var. **Americanum**, Gray.
Sagittaria variabilis, Engelm.
heterophylla, Pursh.
graminea, Michx.

HYDROCHARIDACEÆ.

Anacharis Canadensis, Planchon.
Vallisneria spiralis, L.

ORCHIDACEÆ.

Orchis spectabilis, L. Widely distributed but very rare.

Perularia virescens, Gr. (*Habenaria virescens*, Spreng. Bot. Gaz. V, 6, p. 63.) Gibson and northern counties.

Habenaria tridentata, Hook. Lake.

viridis, R. Br., var. **bracteata**, Reichenbach. Tippecanoe.

hyperborea, R. Br. Lake. (*E. J. Hill.*)

ciliaris, R. Br. Northern counties.

lacera, R. Br. Northern counties.

psycodes, Gray. Clark and northern counties.

peramœna, Gray. More common south.

Goodyera pubescens, R. Br. Gibson. (*Dr. J. Schneck.*)

Spiranthes cernua, Richard.

gracilis, Bigelow. Jefferson, Lake.

Arethusa bulbosa, L. Lake. (*E. J. Hill.*)

Pogonia ophioglossoides, Nutt. Lake. (*E. J. Hill.*)

pendula, Lindl. Gibson, Jefferson.

verticillata, Nutt. Jefferson.

Calopogon pulchellus, R. Br. Gibson and northern counties.

Microstylis monophyllos, Lindl. "Knobs." (*Dr. A. Clapp.*)

Liparis liliifolia, Richard. Jefferson, Gibson.

Lœselii, Richard. Lake. (*E. J. Hill.*)

Corallorhiza innata, R. Brown. "Knobs." (*Dr. A. Clapp.*)

odontorhiza, Nutt. Jefferson, Clark, Gibson.

multiflora, Nutt. Jefferson.

Aplectrum hyemale, Nutt. Tippecanoe and south.

Cypripedium candidum, Muhl. Gibson. "Rapidly disappearing, once common." (*Dr. J. Schneck.*)

parviflorum, Salisb. Gibson and northern counties.

pubescens, Willd. Northern counties.

spectabile, Swartz. Lake counties.

acaule, Ait. In a tamarack swamp in Noble county.

AMARYLLIDACEÆ.

Pancratium rotatum, Ker. Gibson. (*Dr. J. Schneck.*)

Agave Virginica, L. Jefferson, Gibson.

Hypoxys erecta, L. Widely distributed but not abundant.

HÆMODORACEÆ.

Aletris farinosa, L. Gibson and northern counties.

IRIDACEÆ.

Iris versicolor, L.

cristata, Ait. Southern counties.

Pardanthus Chinensis, Ker. Jefferson, Gibson.

Sisyrinchium Bermudiana, L. All the forms of the manual are found in abundance.

DIOSCOREACEÆ.

Dioscorea villosa, L.

SMILACEÆ.

Smilax rotundifolia, L. The species, as well as the var. *quadrangulata*, is very common.
glauca, Walt. Jefferson, Gibson.
hispida, Muhl. Gibson, Marion.
Pseudo-China, L. "Knobs." (*Dr. A. Clapp.*)
herbacea, L. Less common than the var. *pulverulenta*.

LILIACEÆ.

Trillium sessile, L.
recurvatum, Beck. Not so common as the last.
erectum, L. The forms formerly called *album* and *declinatum* are found more abundantly than anything else.
grandiflorum, Salisb. Widely scattered but not abundant.
cernuum, L. Jefferson, Marion.
nivale, Riddell. Tippecanoe.
Medeola Virginiana, L. Jefferson, Lake.
Melanthium Virginicum, L. Floyd, Harrison. (*Dr. A. Clapp.*)
Stenanthium angustifolium, Gray. South.
Veratrum Woodii, Robbins. "Woods and hilly barrens of Green Co." (*Prof. A. Wood.*)
viride, Ait.
Chamælirium Carolinianum, Willd. (*C. luteum*, Gr.) Southern counties.
Tofieldia glutinosa, Willd. Northern tier of counties.
Uvularia perfoliata, L. Not so common as the next.
grandiflora, Smith. (Includes *U. flava*, Smith.)
Oakesia sessilifolia, Watson. (*Uvularia sessilifolia*, L.)
Convallaria majalis, L. Escaped in several places.
Smilacina racemosa, Desf.
stellata, Desf. Not so common as the last.
Maianthemum Canadense, Desf. (*Smilacina bifolia*, var. *Canadensis* Gr.) Northern tier of counties.
Polygonatum biflorum, Ell. Not so common as the next.
giganteum, Dietrich.
Asparagus officinalis, L. Generally escaped.
Lilium Philadelphicum, L.
Canadense, L. Carroll.
superbum, L. Laporte, St. Joseph.
Erythronium Americanum, Smith.
albidum, Nutt. Not so common as the last.
Ornithogalum umbellatum, L. Escaped everywhere.
Camassia Fraseri, Torr. (*Scilla Fraseri*, Gr.) Becoming rare.
Allium tricoccum, Ait. Jefferson.

cernuum, Roth. Jefferson, St. Joseph.
Canadense, Kalm. Gibson, "Knobs," Marion.
Nothoscordum striatum, Kunth. (*Allium striatum*, Jacq.) Southern prairies.
Muscari botryoides, Mill. Escaped.
Hemerocallis fulva, L. Escaped.
flava, L. Escaped in Gibson.

JUNCACEÆ.

Luzula campestris, DC. Must be common, but reported only from Jefferson.
Juncus effusus, L. Jefferson, Laporte.
marginatus, Rostkovius.
tenuis, Willd.
dichotomus, Ell. Gibson. (*Dr. J. Schneck.*)
Greenii, Oakes & Tuckerm. Lake. (*E. J. Hill.*)
pelocarpus, E. Meyer. Laporte.
acuminatus, Michx. Common under many forms, especially the var. *debilis*.
nodosus, L. Gibson. (*Dr. J. Schneck.*)
" var. **megacephalus**, Torr. Jasper.
scirpoides, Lam. Jefferson.
" var. **macrostemon**, Engelm. Laporte. (*E. J. Hill.*)
Canadensis, J. Gay, var. **longicaudatus**, Engelm. Laporte, (*E. J. Hill.*)
" var. **brachycephalus**, Engelm. Laporte.

PONTEDERIACEÆ.

Pontederia cordata, L.
Heteranthera reniformis, Ruiz & Pav. Jefferson, Gibson.
Schollera graminea, Willd. Very variable, depending on habitat "When growing in water the leaves and stems are from one to two feet long; while, when found on the muddy borders, they are usually one to two inches in length." (*Dr. J. Schneck.*)

COMMELINACEÆ.

Commelina Virginica, L. Jefferson, Gibson, Lake.
Cayennensis, Richard. Gibson.
Tradescantia Virginica, L.
pilosa, Lehm.

XYRIDACEÆ.

Xyris flexuosa, Muhl., Chapm. Laporte.

ERIOCAULONACEÆ.

Eriocaulon septangulare, Withering. Laporte. (*E. J. Hill.*)

CYPERACEÆ.

Cyperus flavescens, L. Jefferson.
diandrus, Torr.
erythrorhizos, Muhl. Jefferson, Gibson.
inflexus, Muhl. Jefferson.
phymatodes, Muhl. Southern counties.
strigosus, L.
Michauxianus, Schultes. Jefferson.
Schweinitzii, Torr. Shores of Lake Michigan.
filiculmis, Vahl. Lake, Laporte.
ovularis, Torr. Jefferson, Gibson, Lake.

Kyllingia pumila, Michx. Common in southern counties.

Dulichium spathaceum, Pers.

Hemicarpha subsquarrosa, Nees. Laporte. The var. *Drummondii*. (*E. J. Hill.*)

Eleocharis obtusa, Schultes.
Engelmanni, Steud., var. **detonsa**, Gray. (BOT. GAZETTE, Vol. III, No. 10.) Laporte. (*E. J. Hill.*)
olivacea, Torr. Gibson. (*Dr. J. Schneck.*)
palustris, R. Br. Gibson, Jefferson, Laporte.
rostellata, Torr. Southwestern counties.
tenuis, Schultes. Gibson, Jefferson, Lake.
acicularis, R. Br. Gibson and northern counties.

Scirpus subterminalis, Torr. Lake. (*E. J. Hill.*)
pungens, Vahl.
validus, Vahl. Gibson and northern counties.
debilis, Pursh. Lake. (*E. J. Hill.*)
Smithii, Gray. Laporte.
fluviatilis, Gray. Gibson. (*Dr. J. Schneck.*)
atrovirens, Muhl.
polyphyllus, Vahl. Southern counties.
lineatus, Michx. Southwestern counties.
Eriophorum, Michx.

Eriphorum Virginicum, L. Northern counties.
polystachyon, L. Lake. (*E. J. Hill.*)
gracile, Koch. With the last.

Fimbristylis autumnalis, Rœm. & Schult.
capillaris, Gray. Lake.

Rhynchospora cymosa, Nutt. Lake. (*E. J. Hill.*)
alba, Vahl. Laporte.
capillacea, Torr., var. **leviseta**, E. J. Hill. Pine Station, Lake Co. (*E. J. Hill.*) (BOT. GAZETTE, Vol. VI, No. 9.)
glomerata, Vahl. Lake and Laporte.
corniculata, Gray. Floyd. (*Dr. A. Clapp.*)

Cladium mariscoides, Torr. Lake. (*E. J. Hill.*)

Scleria triglomerata, Michx. Lake.
verticillata, Muhl. Southern counties and Lake.
Carex polytrichoides, Muhl. Lake.
Willdenovii, Schk. Jefferson.
Steudelii, Kunth. Jefferson.
disticha, Huds. Lake.
vulpinoidea, Michx.
Nuttallii, Schw. (*C. crus-corvi*, Shuttlew.) Gibson.
stipata, Muhl. Jefferson, Gibson.
alopecoidea, Tuckerman. Lake.
sparganioides, Muhl. Jefferson, Floyd, Lake.
cephalophora, Muhl.
Muhlenbergii, Schk. Jefferson, Lake, Laporte.
rosea, Schk. Gibson, Lake. The variety *radiata* occurs in Jefferson.
stellulata, L. Lake.
" var. **scirpoides**, Carey. Lake.
Muskingumensis, Schk. (*C. arida*, Schw. & Torr.) Gibson.
scoparia, Schk.
lagopodioides, Schk. Jefferson.
fœnea, Willd. Gibson.
straminea, Schk. The many forms not easily separated.
alata, Torr. Lake.
stricta, Lam. Lake.
" var. **strictior**, Carey. Lake.
crinita, Lam. Jefferson.
Shortiana, Dew. Southern counties.
aurea, Nutt. Lake.
panicea, L., var. **Meadii**, Olney. (*C. Meadii*, Dew.) Lake.
" var. **tetanica**, Olney. (*C. tetanica*, Schk.) Southern counties.
microdonta, Torr. (*C. Crawei*, Dew.) Lake.
granularis, Muhl. Jefferson.
conoides, Schk. Gibson.
grisea, Wahl. Jefferson.
gracillima, Schw. Jefferson.
virescens, Muhl. Jefferson.
triceps, Michx.
digitalis, Willd. Jefferson.
laxiflora, Lam. Jefferson, Lake.
" var. **stylosa**, Boott. Jefferson.
" var. **plantaginea**, Boott. Jefferson.
" var. **blanda**, Carey. Gibson, Lake.
" var. **latifolia**, Boott. Tippecanoe.
oligocarpa, Schk. Jefferson.
eburnea, Boott. Jefferson, Lake.

umbellata, Schk. Lake.
Emmonsii, Dew. Jefferson, Lake.
Pennsylvanica, Lam.
Richardsonii, R. Br. Lake.
pubescens, Muhl. Jefferson.
debilis, Michx. Jefferson.
flava, L. Noble.
viridula, Mx. (*C. Œderi*, Ehrh.) Lake.
filiformis, L. Lake.
lanuginosa, Michx. Jefferson.
comosa, Boott. Floyd.
Pseudo-Cyperus, L. Floyd, Noble.
hystricina, Willd. Lake.
tentaculata, Muhl.
intumescens, Rudge.
Grayii, Carey. Southern counties.
lupulina, Muhl. Southern counties.
squarrosa, L. Jefferson.
stenolepis, Torr. Jefferson.
retrorsa, Schw. Gibson.
gigantea, Rudge. Jefferson, Floyd, Gibson.
monile, Tuckerman. Gibson.
Tuckermani, Boott. Floyd.

GRAMINEÆ.

Leersia Virginica, Willd. Marion and south.
oryzoides, Swartz.
Zizania aquatica, L. Gibson, Laporte.
Alopecurus aristulatus, Michx. Floyd. (*Dr. A. Clapp.*)
Phleum pratense, L.
Vilfa aspera, Beauv. Gibson.
vaginæflora, Torr. Shores of Ohio and Lower Wabash.
Sporobolus heterolepis, Gray. Gibson. (*Dr. J. Schneck.*)
cryptandrus, Gray. Lake. (*E. J. Hill.*)
Agrostis perennans, Tuckerm. Jefferson.
scabra, Willd.
vulgaris, With.
alba, L.
Cinna arundinacea, L. Jefferson, Gibson.
Muhlenbergia sobolifera, Trin. Jefferson, Gibson.
Mexicana, Trin.
sylvatica, Torr. & Gr.
Wildenovii, Trin. Jefferson.
diffusa, Schreber. Marion, Jefferson, Gibson.
capillaris, Kunth. Marion.
Brachyelytrum aristatum, Beauv. Gibson.

Calamagrostis Canadensis, Beauv. Marion, Lake.
longifolia, Hook. Lake.
Oryzopsis melanocarpa, Muhl. Jefferson.
Aristida ramosissima, Engelm. Jefferson, Gibson.
dichotoma, Michx. Southern counties.
gracilis, Ell. Jefferson.
oligantha, Michx. Jefferson, Gibson.
Spartina cynosuroides, Willd. Laporte.
Dactyloctenium Ægyptiacum, Willd. Gibson.
Eleusine Indica, Gærtn.
Tricuspis seslerioides, Torr. Southern counties.
Diarrhena Americana, Beauv. Side ravines of the Ohio River and Lower Wabash.
Dactylis glomerata, L.
Kœleria cristata, Pers. Gibson, Laporte.
Eatonia Pennsylvanica, Gray. Gibson.
Glyceria Canadensis, Trin. Gibson.
elongata, Trin. Clark.
nervata, Trin. Jefferson.
pallida, Trin. Jefferson.
fluitans, R. Br. Jefferson, Gibson.
Poa annua, L. Marion.
compressa, L. Jefferson, Marion.
serotina, Ehrhart. Marion.
pratensis, L.
trivialis, L. Floyd, Marion.
brevifolia, Muhl. Floyd. (*Dr. A. Clapp.*)
Eragrostis reptans, Nees.
poæoides, Beauv., var. **megastachya**, Gray.
pilosa, Beauv. Gibson.
Frankii, Meyer. Jefferson. Gibson.
tenuis, Gray. Marion, Gibson.
capillaris, Nees. Jefferson.
pectinacea, Gray. The var. *spectabilis* is found in Marion.
Festuca elatior, L. Gibson.
nutans, Willd. Jefferson, Gibson.
Bromus secalinus, L.
racemosus, L. Jefferson, Gibson.
Kalmii, Gray. Gibson.
ciliatus, L.
Uniola latifolia, Michx. Southern counties.
Phragmites communis, Trin. Some specimens in Gibson county 19 feet high. (*Dr. J. Schneck.*)
Arundinaria tecta, Muhl. Southern counties.
Triticum repens, L. Marion.
violaceum, L. Lake. (*E. J. Hill.*)

Hordeum pratense, Huds. Gibson.
Elymus Virginicus, L. Southern counties.
Canadensis, L. With the last.
striatus, Willd. Jefferson, Gibson.
Gymnostichum Hystrix, Schreb. Southern counties.
Danthonia spicata, Beauv. Jefferson, "Knobs."
Arrhenatherum avenaceum, Beauv. Jefferson, Marion.
Holcus lanatus, L. Floyd.
Anthoxanthum odoratum, L. Marion.
Phalaris Canariensis, L. Escaped in Jefferson and Gibson.
arundinacea, L. Gibson.
Paspalum fluitans, Kunth. Southern counties.
setaceum, Michx.
læve, Michx.
Panicum glabrum, Gaudin. Jefferson.
sanguinale, L.
anceps, Michx. Jefferson, Gibson.
agrostoides, Spreng. Southern counties.
proliferum, Lam. Marion and south.
capillare, L.
virgatum, L. Jasper, Marion and south.
latifolium, L.
clandestinum, L.
dichotomum, L.
Crus-galli, L. The var. *hispidum* occurs in Jefferson and Gibson.
Setaria verticillata, Beauv. Marion.
glauca, Beauv.
viridis, Beauv. Marion.
Italica, Kunth. Escaped in Jefferson and Gibson.
Cenchrus tribuloides, L. Along all the principal streams.
Andropogon furcatus, Muhl. South.
scoparius, Michx. Northern counties.
Virginicus, L. Southern counties.
Sorghum nutans, Gray. Marion.

EQUISETACEÆ.

Equisetum arvense, L. Gibson.
robustum, Braun. Along the Ohio river.
hyemale, L.
variegatum, Schleicher. Lake. (*E. J. Hill.*)

FILICES.

Polypodium vulgare, L. Montgomery, Parke.
incanum, Swartz. Clark, Floyd, Perry, Gibson.
Cheilanthes vestita, Swartz. Gibson.
Pellæa atropurpurea, Link.
Pteris aquilina, L.
Adiantum pedatum, L.

Woodwardia Virginica, Smith. Lake, Laporte.
Asplenium pinnatifidum, Nutt. Gibson.
Trichomanes, L. Gibson.
ebeneum, Ait.
angustifolium, Mx. Tippecanoe and south.
Ruta-muraria, L. Abundant in Jefferson, Clark and Floyd.
thelypteroides, Mx.
Filix-fœmina, Bernh.
Camptosorus rhizophyllus Link. Abundant in southern counties.
Phegopteris hexagonoptera, Fee.
Aspidium Noveboracense, Swartz.
Thelypteris, Swartz.
Goldianum, Hood. Deep gorges leading into the principal streams.
Filix-mas, Swartz.
marginale, Swartz.
acrostichoides, Swartz.
Cystopteris fragilis, Bernh.
bulbifera, Bernh. Jefferson, Tippecanoe.
Onoclea sensibilis, L.
Struthiopteris, Hoffm. (*Struthiopteris Germanica*, Willd.) Montgomery.
Woodsia obtusa, Torr. Jefferson, Gibson.
Dicksonia pilosiuscula, Willd. (*D. punctilobula*, Kunze.) Clark, Floyd, Gibson.
Osmunda regalis, L. Jefferson, Floyd, Noble.
Claytoniana, L. Gibson.
cinnamomea, L. Jefferson, Montgomery.

OPHIOGLOSSACEÆ.

Botrychium ternatum, Swartz. (*B. lunarioides*, Swartz.) Gibson, Jefferson, Lake.
" var. **obliquum**, Milde. (*B. lunarioides*, Swz., var. *obliquum*, Eaton.) Jefferson.
" var. **dissectum**, Milde. (*B. lunarioides*, Swz., var *dissectum*, Eaton.) Jefferson.
Virginianum, Swartz. Gibson, Jefferson, Lake.
Ophioglossum vulgatum, L. Jefferson, Crawford, Gibson.

LYCOPODIACEÆ.

Lycopodium dendroideum, Michx. Lake, Montgomery.
complanatum, L. Lake, Laporte.

SELAGINELLEÆ.

Selaginella rupestris, Spring. Gibson, Montgomery, Lake.
apus, Spring. Gibson, Jefferson, Tippecanoe.

SALVINIACEÆ.

Azolla Caroliniana, Willd.

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